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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/620,479	07/16/2003	Steven G. Johnson	13445-002002	9196	
26161 75	90 11/16/2005		EXAM	EXAMINER	
FISH & RICHARDSON PC P.O. BOX 1022			CONNELLY CUSH	CONNELLY CUSHWA, MICHELLE R	
	S, MN 55440-1022		ART UNIT	PAPER NUMBER	
			2874		

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			100
	Application No.	Applicant(s)	110
	10/620,479	JOHNSON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Michelle R. Connelly-Cushwa	2874	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perion.  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDON	ON. timely filed m the mailing date of this communication IED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 20	October 2005.		
2a)⊠ This action is <b>FINAL</b> . 2b)□ TI	his action is non-final.		
3) Since this application is in condition for allow	vance except for formal matters, p	rosecution as to the merits	is
closed in accordance with the practice unde	r Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1,63-65 and 73-90</u> is/are pending in	n the application.		
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1 and 73-88</u> is/are rejected.			
7)⊠ Claim(s) <u>63-65,89 and 90</u> is/are objected to.			
8) Claim(s) are subject to restriction and	I/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exami	ner.		
10)⊠ The drawing(s) filed on 16 July 2003 is/are:	a)⊠ accepted or b)□ objected to	by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre			(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached Office	e Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of:	gn priority under 35 U.S.C. § 119(	a)-(d) or (f).	
<ol> <li>Certified copies of the priority docume</li> </ol>	ents have been received.		
<ol><li>Certified copies of the priority docume</li></ol>	ents have been received in Applica	ition No	
3. Copies of the certified copies of the pr	riority documents have been receiv	ved in this National Stage	
application from the International Bure	` ''		
* See the attached detailed Office action for a li	ist of the certified copies not receive	/ed.	
Attachment(s)	·		
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	rv (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	_ Paper No(s)/Mail I	Date	
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date</li> </ol>	(5) Notice of Informal 6) Other:	Patent Application (PTO-152)	

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#### **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 20, 2005 has been entered.

## Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1 and 73-88 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 5-8, 13, 14, 16, 19, 21-29 and 42-45 of U.S. Patent No. 6,625,364 B2. Although the conflicting claims are not identical, they are not patentably distinct from each other because all of the limitations of claims 1 and 73-88 of the present application are at least disclosed or

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suggested in claims 1, 5-8, 13, 14, 16, 19, 21-29 and 41-45 of U.S. Patent No. 6,625,364 B2.

# Response to Arguments

Regarding the rejection to claim 74 under 35 U.S.C. 112, second paragraph, set forth in the previous Office action; the rejection has been withdrawn in view of Applicant's Amendment filed October 20, 2005.

Regarding the rejections to claims 1, 63-65 and 73-90 under 35 U.S.C. 103(a) over Fink et al. (US 6,463,200 B2); the rejections have been withdrawn in vies of Applicant's Amendment filed October 20, 2005.

Regarding the rejections to claims 1 and 73-88 under the judicially created doctrine of obviousness-type double patenting over claims 1, 5-8, 13, 14, 16, 19, 21-29 and 42-45 of U.S. Patent No. 6,625,364 B2; the rejection has been maintained. The Examiner notes that Applicant states, "We intend to file a Terminal Disclaimer to obviate the rejection upon an indication that the application is otherwise allowable" in the Remarks section of Applicant's Amendment filed October 20, 2005. After an updated search, the Double Patenting Rejection set forth above is the only remaining rejection to the claims in the present application.

### Allowable Subject Matter

Claims 63-65, 89 and 90 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The prior art cited on the PTO-892 forms attached to the prior Office actions is

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the most relevant prior art known, however, the invention of claims 63-65, 89 and 90 distinguishes over the prior art of record for the following reasons.

Regarding claims 63-65 and 90; the claims are allowable over the prior art of record because none of the references either alone or in combination disclose or render obvious an all-dielectric waveguide as defined in claim 63, wherein the core has a diameter in a range between about 5 microns and 170 microns and wherein the refractive indices and thickness of at least some of the alternating dielectric layers substantially satisfy the equality set forth in claim 63 in combination with the other limitations of the claim. Claims 64, 65 and 90 depend from claim 63.

Regarding claim 89; the claim is allowable over the prior art of record because none of the references either alone or in combination disclose or render obvious an all-dielectric waveguide as defined in claim 89, wherein a ratio of a refractive index of a high-index one of the two dielectric materials in the dielectric confinement region for the central frequency to that of a low-index one of the two dielectric materials is greater than 1.5 and wherein the refractive indices and thicknesses of at least some of the alternating dielectric layers substantially satisfy the equality set forth in claim 89 in combination with the other limitations of the claim.

Hence, there is no reason or motivation for one of ordinary skill in the art to use the prior art of record to make the invention of claims 63-65, 89 and 90.

#### Conclusion

All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the

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grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning the merits of this communication should be directed to Examiner Michelle R. Connelly-Cushwa at telephone number (571) 272-2345. The examiner can normally be reached 9:00 AM to 7:00 PM, Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney B. Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general or clerical nature should be directed to the Technology Center 2800 receptionist at telephone number (571) 272-1562.

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Michelle R. Connelly-Cushwa

Patent Examiner November 1, 2005